

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002332

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/26 H04L29/06 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 1 265 415 A (ABB RESEARCH LTD) 11 December 2002 (2002-12-11) abstract; figure 3 page 2, paragraphs 3-6,9 page 3, paragraphs 11,12 page 4, paragraph 25-28	1,2,19, 20 3,4,7,8, 10,11
Y	US 2002/120874 A1 (POPPE DOROTHY C ET AL) 29 August 2002 (2002-08-29) abstract; figure 2 paragraph [0015] paragraph [0049] paragraphs [0063] - [0080]	3,7,8, 10,11
Y	WO 99/59293 A (ERICSSON TELEFON AB L M) 18 November 1999 (1999-11-18) abstract page 2, line 22 - page 3, line 21	4

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

16 December 2004

Date of mailing of the international search report

17. 03. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
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Authorized officer

Figiel, B

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1265415	A	11-12-2002	EP	1265415 A1	11-12-2002

US 2002120874	A1	29-08-2002	WO	02065292 A2	22-08-2002
			WO	02052787 A2	04-07-2002
			WO	02062032 A2	08-08-2002
			US	2003084020 A1	01-05-2003
			US	2002080888 A1	27-06-2002

WO 9959293	A	18-11-1999	AU	4401999 A	29-11-1999
			BR	9910423 A	09-01-2001
			CA	2331612 A1	18-11-1999
			CN	1300489 A	20-06-2001
			GB	2353683 A	28-02-2001
			WO	9959293 A1	18-11-1999

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PCT/IB2004/002332

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-4,7-8,10-11 and 19-21

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4, 7-8, 10-11 and 19-21

the signals of the message are divided and sent across two communication paths

2. claims: 5-6, 9 and 12-13

the signals sent on one communication path are also sent on another communication path

3. claims: 14-18, 22-29

one of the signals of the message are adapted to contain spurious information

PATENT COOPERATION TREATY**PCT**INTERNATIONAL APPLICATION STATUS FORM
(IASF)**Date of issue of this IASF:**(the information contained in this IASF reflects the status
of the international application as of this date)
09 February 2006 (09.02.2006)

From the INTERNATIONAL BUREAU

To:

UNITED STATES PATENT AND TRADEMARK OFFICE
Commissioner for Patents,
P.O.Box 1450
Alexandria VA 22313 -1450
ETATS-UNIS D'AMERIQUE

I - INTERNATIONAL APPLICATION		
I-1	International application number:	PCT/IB2004/002332
I-2	International filing date:	15 July 2004 (15.07.2004)
I-3	Earliest priority date:	24 July 2003 (24.07.2003)
I-4	Title of the invention:	WIRELESS NETWORK SECURITY
I-5	International Patent Classification:	⁷ H04L 12/26, 29/06, 12/28
I-6	Language of filing:	English
I-7	The State for which the Office acts as a designated Office has been designated in the international application:	Yes
I-7-1	Indication of the State(s) designated in the international application in respect of which the Office acts as a designated Office (only where the designated Office is a regional Office):	Not applicable
I-7-2	The international application has been considered withdrawn in a declaration made by the receiving Office on (date):	Not applicable
I-7-3	The international application or the designation of the State for which the Office acts as a designated Office has been withdrawn by the applicant (date on which withdrawal became effective):	Not applicable
I-7-4	Kind of protection or treatment:	Patent
I-7-4-1	Identification of parent application or parent grant:	Not applicable
I-8	Date of receipt of record copy by the International Bureau:	22 July 2004 (22.07.2004)
I-9	Applicant(s) and/or inventor(s) for the State(s) for which the Office acts as a designated Office	
I-9-1	Applicant and/or inventor	
I-9-1-1	Data currently on record	
I-9-1-1-1	Applicant's and/or inventor's name:	CHIMOMBO, Christopher, Z.
I-9-1-1-2	Address:	c/o Philips Intellectual Property & Standards Cross Oak Lane Redhill, Surrey RH1 5HA United Kingdom
I-9-1-1-3	State of nationality:	MW
I-9-1-1-4	State of residence:	GB
I-9-1-1-5	This person is:	Applicant and inventor

I-9-1-2	Data previously on record (in case of a change recorded by the International Bureau under Rule 9 <i>bis</i>):	No data previously on record available for inclusion in this IASF; any such data is available from the IB.
I-9-1-3	Indication of the State(s) designated in the international application for the purposes of which the person is an applicant and/or inventor (only where the designated Office is a regional Office):	Not applicable
I-10	The international application contains sequence listings and/or tables filed under Section 801(a) of the Administrative Instructions:	No
I-11	The following declaration(s) referred to in Rule 4.17 made for the purposes of the State(s) for which the Office acts as a designated Office was (were) contained in the international application as filed or received by the International Bureau before the expiration of the time limit under Rule 20 <i>r</i> .1:	
I-11-1	Declaration(s) as to the identity of the inventor (Rules 4.17(i) and 51 <i>bis</i> .1(a)(i)):	Not applicable
I-11-2	Declaration(s) as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 <i>bis</i> .1(a)(ii)):	Not applicable
I-11-3	Combined declaration(s) as to the identity of the inventor (Rules 4.17(i) and 51 <i>bis</i> .1(a)(i)) and the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 <i>bis</i> .1(a)(ii)) :	Not applicable
I-11-4	Declaration(s) as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application (Rules 4.17(iii) and 51 <i>bis</i> .1(a)(iii)):	Not applicable
I-11-5	Declaration(s) of inventorship (only for the purposes of the designation of the United States of America) (Rules 4.17(iv) and 51 <i>bis</i> .1(a)(iv)):	Not applicable
I-11-6	Declaration(s) as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51 <i>bis</i> .1(a)(v)):	Not applicable
II - PRIORITY CLAIM(S)		
II-1	Number of earlier application:	0317308.5
II-1-1	Filing date of earlier application:	24 July 2003 (24.07.2003)
II-1-2	Country in which, or regional Office or receiving Office with which earlier application was filed (where the earlier application is an ARIPO application, indication of the country party to the Paris Convention or Member of the World Trade Organization for which that earlier application was filed):	GB
II-1-3	Priority document received at the International Bureau on:	15 July 2004 (15.07.2004)
II-1-4	Priority document submitted or transmitted in compliance with Rule 17.1(a) or (b) (only where priority document was received at the International Bureau):	Yes
II-1-5	Applicant has requested the receiving Office to prepare and transmit the priority document in compliance with Rule 17.1(b) (only where no priority document was received at the International Bureau):	Not applicable
II-1-6	Priority claim withdrawn by a notice from the applicant (date on which withdrawal became effective; if the notice of withdrawal was received by the International Bureau after completion of technical preparations for international publication, such withdrawal will not have been reflected in the pamphlet) (Rule 90 <i>bis</i> .3):	Not applicable
II-1-7	Declaration by the receiving Office or the International Bureau that priority claim is considered, for the purposes of the procedure under the Treaty, not to have been made (date of declaration) (Rule 20 <i>bis</i> .2(b)):	Not applicable

III - INTERNATIONAL SEARCH REPORT		
III-1	International Searching Authority carrying out the international search:	ISA/EP
III-2	International search report or declaration under Article 17 (2)(a) received by the International Bureau:	Yes
III-3	Corrected version(s) of the international search report (if any) received by the International Bureau:	Not applicable
IV - REFERENCE TO DEPOSITED BIOLOGICAL MATERIAL		Not applicable
V - INTERNATIONAL PUBLICATION		
V-1	International publication number:	WO 2005/011195 (A3)
V-2	International publication date:	03 February 2005 (03.02.2005)
V-3	Language of publication:	English
V-4	Number of figure of drawing published together with the abstract:	1+T
V-5	Republication(s) (republishing date(s) and reason(s)):	19 May 2005 (19.05.2005) (A3) Later publication of international search report
VI - INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I)		
VI-1	International preliminary report on patentability (Chapter I) issued by the International Bureau on:	Not applicable
VI-2	Corrected version(s) of the international preliminary report on patentability (Chapter I) (if any) issued by the International Bureau on:	Information not available for inclusion in this IASF
VII - INTERNATIONAL PRELIMINARY EXAMINATION		
VII-1	A demand electing the State(s) for which the Office acts as an elected Office has been received by the International Preliminary Examining Authority (where the elected Office is a regional Office, indication of the State(s) elected in respect of which the Office acts as an elected Office):	No

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35	Authorized officer <p style="text-align: right;">Idhir Britel</p> e-mail pct.cor@wipo.int Telephone No. +41 22 338 83 38
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